INEEL PUBLIC MEETING

ON PROPOSED CLEANUP PLAN FOR

WASTE AREA GROUP 5

(POWER BURST FACILITY/AUXILIARY REACTOR AREA)

TUESDAY, MAY 18, 1999

AT 7:00 P.M.

SHILO INN
780 LINDSAY BOULEVARD
IDAHO FALLS, IDAHO

Reported By: Kimberly Carpenter, CSR #600

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I INDEX	•	1 PROCEEDINGS
2		2 -oOo-
3		3 MR. SIMPSON: Welcome to tonight's
4		4 meeting. And, also, thanks for forgoing the
5 THE FACILITATOR: ERIK SIMPSON		5 sequel to the NBC movie "Atomic Train" to be here
6		6 tonight.
7		7 I'm Erik Simpson. I'm the Community
8		8 Relations Plan Coordinator for the Environmental
9 PRESENTATIONS: SCOTT RENO P.	6	9 Restoration Program, and I'm going to facilitate
10 KEITH ROSE P.	13	10 tonight's meeting.
11 KEVIN O'NEILL P.	21	We're here tonight to discuss the
12		12 remedial investigation and feasibility study for
13		13 Waste Area Group 5. And Waste Area Group 5 is
14		14 the Environmental Restoration Program designation
15 PUBLIC COMMENTS: BEATRICE BRAILSFORD	P.52	15 for the Power Burst Facility and Auxiliary
16 BEVERLY CARLYLE P.	53	16 Reactor Area. This is the sixth comprehensive
17 TED CARPENTER P.	54	17 environmental investigation that the INEEL has
18		18 completed, and we have three more to go.
19		19 For those who are familiar with our
20		20 documents and regularly read them, the Waste Area
21		21 Group 5 proposed plan follows the same format as
22 23		22 the Waste Area Group 1 proposed plan which was
[23		23 released last fall.
24		24 The document, the Waste Area Group 1
25		25 Proposed Plan, was developed with the use and
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	Page 4		P	age 5	
1	help of a citizens focus group. And the PBF and	1	recording all portions of this meeting.		
2	ARA proposed plan was developed with the help of	2	Also, in the back of the proposed		
3	the Citizens Advisory Board ER Subcommittee,	3	plan whoops in the back of the proposed		
	which reviewed and commented on this document.		plan, we have a comment form, a postage-paid		
5	So, really, there's been a lot that's gone into	5	comment form, that you can write your comments		
6	this document, involving a lot of people's time	6	down on and send them directly to DOE.		
	and efforts.	7	Also, we have a comment form at the back		
8	At this time, I would like to review the	8	of the room, which is also postage-paid. And,		
9	agenda with everyone. With a small group, I	9	for the first time, you can submit your comments		
10	think we're probably not going to be quite as	10	electronically over the Internet.		
	formal as we are in or were in our past	11	And, oh, I should also mention, on the		
12	meetings.	12	back of the agenda, there's a comment form, an		
13	But, at first, we'll have the	13	evaluation form, regarding this meeting. So,		
	presentation. And then we'll have	14	please take the time to make a few comments, and		
15	following the presentation, we'll have a		we'll use your suggests to shape our future		
16	questions-and-answers session, where you can ask	16	public meetings.		
17	questions of the project managers.	17	At this time, I'd like to introduce the		
18	I should mention that, if you have some		presenters. Over here, with the State of Idaho,		
19	questions during the course of the presentation,		Division of Environmental Quality, is Scott		
20	feel free to ask them. And then we will have the	20	Reno. Scott will give an overview of the Power		
21	Q-and-A session following the presentation.	21			
22		22	he'll discuss the contaminate sources.		
23	session, we'll have a public comment period,	23	Keith Rose. Keith is the project		
	where your comments are entered into the record.		manager with the Environmental Protection Agency	y,	
25	And we have a court reporter here tonight who is	25	Region 10, in Seattle. And Keith will talk about		
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the risk assessment process and also the remedialaction objectives.

And then we have Kevin O'Neill. Kevin is the project manager for the Department of Energy. And Kevin will talk about the proposed alternatives. And then, also, we'll just provide a summary at the end.

8 So, with that, I'm going to pass the 9 mike over to Scott.

MR. RENO: Thank you, Erik. Can you hear me okay? Did you turn it off? Okay. How about now?

I'd like to thank you for coming tonight, taking the time out of your busy schedules and coming to tell us about what you think of our plan. That's why we're here. This is just to help bring people up to speed a little bit. So, I'll give you a little introduction to the facility.

Waste Area Group 5 is located in the south central portion of the INEEL. It consists of two main operational areas. To the north part of the PBF/ARA area were five reactors that operated there beginning in the '50s and poperating into the '80s.

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They go around spokes of a wagon wheel,
around a central control area. There was a power
burst reactor that is still there. It's in
standby mode today. And it's on the former
location of the SPERT-I reactor.

And then going around the wagon wheel,
there was a SPERT-II reactor, the SPERT-III
reactor and the SPERT-IV reactor. At the
locations of the former SPERT-III reactor is now
the Waste Experimental Reduction Facility. And
the location of the former SPERT-IV reactor is
the Mixed Waste Storage Facility.

If we move on over to the Auxiliary
Reactor Area, there were four main operational
areas there. ARA-I housed support facilities for
the SL-1 reactor. At ARA-II, it also housed
facilities that supported operations at SL-1

17 facilities that supported operations at SL-1.
18 And, at ARA-III, Area 3, it housed the
19 Army's Gas-Cooled Reactor Experiment. And, also,
20 for a period of time, the Mobile Low-Power
21 Reactor was in operation there. And this was a
22 reactor that was on tracks, like a tank, and they
23 were looking at possibly some remote applications

24 of having a power source.25 The last facility there is ARA-IV. The

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1 nuclear effects reactor operated there in the 2 late '50s and early '60s. And that area is now 3 utilized for explosives testing.

All the reactors and facilities at the ARA area have been dismantled and tore down, and there's no active reactors there today.

Several activities have occurred here at
Waste Area Group 5 already. We did do a cleanup
at the Power Burst Facility's evaporation pond,

and we removed hot spots that contained cesium-137 and chromium. And we also cleaned up

12 the contents of the sump that fed that pond.

We put a permanent cover on the former trenches and the pit where the debris is from the SL-1 incident. We removed waste. We did a removal action at the ARA-II seepage pit and containerized some -- some liquids and sludges that were present there. And the disposition of that drum material is part of this action.

And then we have seven remaining sites
that we are proposing to take an action at under
this proposed plan. We investigated a total of
structure of the seven remaining sites
that we are proposing to take an action at under
this proposed plan. We investigated a total of
structure of the seven remaining sites

24 determined to require either no action or no25 further action. We have seven remaining sites.

Page 8 The first of these is the

The first of these is the ARA-I chemical evaporation pond. It received wastewaters from the hot cells and a small laboratory that were present at the ARA-I facility. We expect in the neighborhood of 2,400 cubic yards of contaminated soils. We'll need action at that site.

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7 The ARA-12 radioactive leach pond 8 contains on the order of 90 cubic yards of 9 contaminated material, primarily contaminated 10 with silver-108 metastable, the radionuclide, and 11 also cesium-137.

MS. BEATRICE BRAILSFORD: What was the 13 soil total?

MR. RENO: I'm sorry, Beatrice?
MS. BEATRICE BRAILSFORD: I'm sorry.
Did you say the soil total? I'm sorry. Did you
say how much was there?

18 UNIDENTIFIED AUDIENCE MEMBER: Ninety.
19 MS. BEATRICE BRAILSFORD: Nineteen?
20 MR. RENO: Yeah. Ninety. On the order
21 of 90.

And this contamination is a result of the discharges of secondary cooling water from the Gas-Cooled Reactor Experiment and possibly from the Mobile Low-Power Reactor, too. This is

1 a shallow unlined pond. It's a natural 2 depression that's present there.

Site ARA-25 consists of -- on the order
of 70 cubic yards of contaminated soils that were
encountered during the decommissioning and
dismantlement of the ARA-I facility. They ran
into some hot soils in the vicinity on some floor
drains on the floor slabs, and it's contaminated
with radionuclides.

The ARA-23 is the most significant source of contamination in this area. It's a 12 58-acre area. It's primarily contaminated with windblown deposition from the cleanup of the SL-1 incident.

If you're not familiar with the SL-1 incident, it was a power excursion that had happened in the Stationary Low-Power Reactor in January of 1961. It heated the cooling water around the reactor vessel and resulted in a steam explosion. And it did result in the deaths of the three operators that were at the facility that day.

As I've said before, we've already taken an action to deal with where they buried the debris from the facility, but we still have this Page 11 depositional area which is primarily contaminated with cesium-137, and primarily in the upper four inches of the soils.

We're proposing to try to remediate 5 approximately 46,500 cubic yards of soils at 6 SL-1. And that comprises the majority of the 7 50,000 yards, or so, of soils we're going to try 8 to clean up with this action.

The SPERT-II leach pond, PBF-16, received backwash from the water softeners and treatment systems at the SPERT-II reactor. There is a little bit of mercury that we found near the outfall to this shallow unlined pond. And we're anticipating on the order of 500 cubic yards of soil that would be remediated at PBF-16.

Now, for our two -- two tank sites. The first one is the ARA-02 sanitary septic system. It should not have had waste in it. We're not entirely sure how it got there, but it is there. As I said before, we've already removed the sludge from the septic tanks itself, the sludge and liquid, and it's containerized in 55 drums.

There were three septic tanks in series, and then they discharged to a seepage pit, which was 12 feet deep. At the bottom of the seepage

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1 pit is approximately two yards of a dry sludge
2 we're proposing to remediate, and then to dispose
3 of the piping and the pit and the tanks
4 themselves.

The last site is the ABA 16 mixed

The last site is the ARA-16 mixed low-level waste tank. This is a 1,000-gallon stainless steel tank. It received discharges from the ARA-I hot shops and the metal-etching process that was there.

It contains on the order of 30 gallons
if of mixed low-level sludge that we'll need to
dispose of. In addition, we'll be proposing to
dispose of the tank vault and the contaminated
soils within the tank vault.

Now, we have lowered a camera down inside the tank. It's in very good shape. You can still see the grease pencil writings on the side of the tank. We don't think the tank has leaked, and there's no evidence of that.

There is contamination in the soils in the tank vault. But that contamination is consistent with the contaminations prevalent in this area from the SL-1 incident.

The constituents that are in this tank, which include solvents, radionuclides and PCB,

1 only the cesium is what we're finding at any 2 level of concern in those soils.

So, if, for some reason, we do find that there has been a leak there, then we would incorporate that into the action that we're talking about.

7 Ökay. With that, I'm going to turn this 8 over to Keith Rose of the EPA to discuss our risk 9 assessment process.

MR. ROSE: As Scott said, I'm here to talk about the risk assessment that was conducted for the WAG 5 facility. He also mentioned the remedial action objectives and the evaluation criteria for the alternatives we did evaluate.

The risk assessment is composed of three major components. The first is to identify contaminants which could cause an adverse effect to human health or the environment. These are commonly called contaminants of concern.

The second part is to identify pathways, exposure pathways, which -- by which humans -human and ecological receptors could be exposed to contaminants of concern.

The third element is to identify the receptors, human and ecological receptors, which

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Page 13

Page 14 1 could be exposed to contaminants at levels of

MS. BEATRICE BRAILSFORD: So, when 3 4 something is named a contaminant of concern, does 5 that mean it's present or it's present at a 6 certain concentration?

MR. ROSE: It's present at a 8 concentration which could potentially pose an 9 adverse risk.

Okay. The human health assessment 11 included two risk scenarios. The first one is 12 called an occupational scenario. It deals with 13 workers at the facility.

This scenario is based on an exposure 15 duration of eight hours a day, 250 days a year 16 for 25 years. It includes current workers and 17 workers that would be exposed 100 years from 18 now -- beginning 100 years from now.

The primary pathways of concern for this 20 scenario are the external exposure and dermal 21 absorption pathways. Institutional controls, 22 including fences and barriers and monitoring of 23 workers, are currently assumed to protect current 24 workers at the facility.

The second scenario we looked at is the

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1 residential, the future residential scenario. 2 which would begin 100 years in the future.

It's assumed that the government will be 4 in control of all facilities at INEEL for 100 years. And beyond that 100-year period, there could potentially be residents living out there.

This exposure pathway is based on 24 8 hours a day, 350 days a year for 30 years, would 9 begin 100 years in the future. And the primary 10 pathways of concern are external exposure and 11 dermal absorption.

Now, the current -- the risk for 12 13 cancer-causing substances, or carcinogens, is --14 the acceptable range for carcinogens is typically 15 in the range of one in ten thousand to one in one 16 million. So, our cleanup decisions are usually 17 based in that range, as shown in this figure over 18 here, between one in ten thousand and one in a 19 million.

For contaminants which could cause a 20 21 noncarcinogenic risk, we have a different method for determining what's the acceptable risk level. That is called a hazard indices or hazard 24 index.

And it's calculated by -- it's a ratio

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1 of the exposed dose -- the exposure -- or the 2 dose of exposure to a reference value. And when 3 that number is above 1.0, that's -- that could 4 mean that it would be a potential site for

5 cleanup. And that's our threshold for 6 determining a potential cleanup action.

Again, the second major component of our 8 risk assessment was the ecological risk 9 assessment. This assessment examined possible 10 impacts to plants, animals, birds, reptiles and 11 insects. It evaluated individual species of 12 concern and groups of species. Contaminant

13 screening was based on site-specific data and 14 data from the literature. And it was assumed that the ecological

16 receptors would be exposed to these contaminants 17 for 100 percent of the time, which is very 18 conservative.

We all know that the -- the 20 environmental receptors, the critters out there, 21 are moving around. They don't get exposed to 22 contaminants in one place for all of their 23 lifetime. But we took the conservative estimate 24 that they would be exposed 100 percent of their 25 lifetime.

The two primary pathways by which the 2 ecological receptors could be exposed to 3 contaminants were through a direct dose from 4 contaminated soil and by ingestion of 5 contaminated plants and prey.

It was found that the highest ecological 7 risks were for two categories of animals. One 8 was insect-eating mammals, such as Merriam's 9 shrew and the northern grasshopper mouse, and for 10 insect-eating birds, such as the ruby-crowned 11 kinglet and the western bluebird.

For ecological risks, we used a 13 parameter called the "hazard quotient" to 14 determine the extent, or the degree, of adverse 15 effect to environmental receptors.

And this was a ratio of the potential 16 17 dose to a reference value. This reference value was something like a no-adverse-effect level, or 19 something like that, which is based on no adverse 20 effects.

21 This table shows the contaminants of 22 concern for human health and ecological 23 receptors. Scott touched on this earlier. This 24 breaks it down into the seven sites of concern, 25 which he mentioned, the seven areas of concern.

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These are the contaminants of concern for human health. You see that they include cesium-137, silver-108 metastable, radium-226, arsenic uranium-235 and uranium-238

4 arsenic, uranium-235 and uranium-238.

Among all those -- among all the

6 radionuclides, the cesium-137 is the most common 7 and drives the risk at most of these sites.

8 For the ecological receptors, we had 9 five metals of concern, including selenium, 10 thallium, mercury, copper and lead.

This table here is a -- shows the result of the risk assessment. It's identical to Table in the proposed plan. Once again, it shows the seven areas of concern here on the left. And in these columns are the risks due to a current occupational scenario. This is the future occupational scenario; and these -- this is the future residential scenario; and, finally, the ecological risks.

MS. BEATRICE BRAILSFORD: Is the cological risks current?

22 MR. ROSE: Current, yes. That's current 23 ecological risks.

The scenario -- the human health risk scenario, which we used as a basis for

1 determining cleanup actions, was the future 2 residential scenario.

And you can see here that in five of the seven sites we had risks exceeding the acceptable risk range of one in ten thousand. We had risk at or above one in ten thousand at five of those sites.

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And at four of the seven sites -- these four here -- we had ecological risk which had a hazard quotient greater than ten.

The remedial action objectives are really the basis now for determining cleanup goals at each site. We had four sets of remedial action objectives.

The first was to inhibit direct exposure to contaminants that would cause -- or would result in an excess cancer risk of one in ten thousand to workers or future residents.

The second objective was to inhibit
dermal absorption of any contaminant of concern
that would result in a hazard index of two or
greater for workers or future residents.

Third was to prevent the release of the waste in the ARA-16 radionuclide tank, which Scott mentioned, to prevent the release of that

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1 waste to the environment where humans or 2 ecological receptors could be exposed.

And, finally, the last objective was to inhibit ecological receptor exposure to contaminated soils with concentrations either greater than ten times the background -- or, actually, greater than ten times the background and with a hazard quotient greater than ten.

This overhead shows the evaluation criteria that are used for super fund cleanups. It consists of nine criterias -- nine criteria broken under three sets.

The first set are called threshold riteria, because any alternative that we look at has to satisfy these two criteria. They include protection of human health and the environment and compliance with all applicable environmental

18 laws and regulations.

The second set of criteria are called balancing criteria. They're used to rank those alternatives which pass the threshold criteria. They consist of long-term effectiveness of the remedy, a reduction of toxicity, mobility or volume through treatment.

Short-term effectiveness addresses how

1 effective will the remedy be during the time it's 2 implemented, how protective will it be to human

3 health and the environment, particularly the 4 workers that are doing the work.

The fourth in that category is ease of implementation. And the final one is the cost.
And the cost here includes not only the capital cost of doing the construction of the remedy but the long-term O&M cost, if there are any.

Finally, there's -- the last set are
called modifying criteria. They consist of state
and public acceptance of the preferred
alternative and the investigation in the

14 feasibility stage that was done to support the 15 proposed plan.

At this point, I would like to introduce Kevin O'Neill, who's going to be talking about the remediation action alternatives that we've evaluated for WAG 5.

MR. O'NEILL: Thank you, Keith.

As Keith pointed out, all the alternatives that we evaluate must pass the threshold criteria before we look into them in-depth.

And of the contaminated sites, these are

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1 the original alternatives we evaluated. Not all 2 of them passed the threshold criteria. One, for 3 instance, the no-action alternative, doesn't do 4 anything to improve the site and is not 5 considered protective. However, we evaluate that 6 as a base line to compare the others to.

The limited action alternative would 8 include institutional controls and things that 9 are in place now to protect the worker and the 10 public from encountering these wastes or being 11 exposed to them. That is also not deemed to be 12 protective once those institutional controls are

13 removed, so we don't evaluate that any further. The next one, excavation, consolidation 15 and containment with a native soil cover within 16 Waste Area Group 5 -- that's another one that we 17 didn't believe met the threshold criteria, 18 because we could not assure that a native soil 19 cap would not erode following the 100-year period 20 of institutional control that we've adopted as 21 our standard. And, because the contaminants are 22 long-lived that would remain underneath that 23 cover, it was not deemed protective. The next one, excavation, consolidation

25 and containment with an engineered barrier was

Page 23 1 further considered. That's a barrier much like 2 the SL-1 cap that was discussed in an earlier 3 action. That barrier would preclude intrusion by animals or humans.

The next four alternatives are all very 6 similar in that the gist of them is to remove the contaminated soil and dispose of it at an appropriate disposal facility that's licensed or 9 built to the requirements necessary to protect 10 the public.

We, in our proposed plan, combined those 12 into Alternatives 4 and 5, five being where we 13 implement, also, a technology that we're 14 investigating called soil sorting. The hope 15 of -- the technology is called the Segmented Gate 16 System.

And the hope of implementing that 17 18 technology is that we can reduce the volume of contaminated -- radiologically contaminated soil 20 that requires disposal and hopefully, hence, 21 reduce the cost of the project overall.

And the variation then is whether or not 23 we dispose of on site. And it is our preference 24 that we would dispose on site should suitable 25 capacity be available.

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While I'm on the subject, I want to talk 2 about this a little bit. We were planning to do 3 this treatability study this next month. We were 4 going to process 1,000 cubic yards of, primarily, 5 cesium-contaminated soil through a Segmented Gate 6 System, which is basically a conveyor belt that 7 exposes the soil to a series of detectors, 8 they're relayed to a series of gates, and it 9 identifies contaminant soil that's contaminated 10 above a set point and diverts the dirty soil to 11 one pile and the clean soil to another. Our hope is that we will get in excess 12

13 of 90 percent volume reduction. And, if we do 14 that, it will be competitive with direct 15 disposal.

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MS. BEATRICE BRAILSFORD: Say that last

17 thing again. It will be --

MR. O'NEILL: Right now -- and I'll put 19 up the next slide, because that's pertinent to 20 your question.

If you look at the costs here for -- the 22 blinking light. Direct disposal, this line here, 23 is varying degrees of separation achieved during 24 the Segmented Gate Study.

We evaluated it as a range of soil

1 reduction -- I'm sorry -- volume reduction 2 percentages. Zero percent means we didn't run it 3 through, that we just dug the stuff up and hauled 4 it off to a suitable repository. And, as you can 5 see right there, it shows to be the lowest cost

Page 25

6 of those alternatives.

When we developed this at 50 percent, we 8 didn't have -- we don't have on-site experience 9 with how this technology will work with our soil 10 and with our contamination. So, we used a conservative number and a conservative rate cost 12 of processing. And it shows it to be 13 significantly more expensive than direct haul.

Using a less, I guess, disciplined cost 14 15 estimate, we evaluated what the cost would be at 16 90 percent reduction. We do have hopes that the 17 cost of processing would go down with the large 18 volume we have. We also have hopes that our percent separation will be higher, and that, in 20 the end, it could actually be less expensive than 21 direct disposal. And the treatability study is 22 the way to find out that information.

In our comparing the various 24 alternatives, no alternative, consolidation, 25 on-site, or removal and disposal, our preferred

Page 26 Page 27 1 alternative is to sort and dispose of that soil 1 long-term -- and that's a good point that I 2 skipped over. As you see down here, operation 2 on-site. MS. BEATRICE BRAILSFORD: What is the 3 and maintenance, there are numbers here for the 3 4 most expensive fraction of volume reduction to 4 first two alternatives but none here. 5 50 percent? And that's because the cost of that MR. O'NEILL: Well, zero means we didn't 6 operation and maintenance, and the monitoring, is captured in the disposal fee. And the 7 even process it. MS. BEATRICE BRAILSFORD: Right. 8 responsibility is carried forward by the -- by 8 MR. O'NEILL: Okay. So, there's no cost 9 the stewards of that facility. This flow chart -- decision chart, if 10 of processing. Fifty percent means we got some 11 you will -- is found in the proposed plan. It 11 reduction, but we have the cost in processing all 12 basically outlines -- lays out how we're going to 12 of that soil, but not enough reduction to reduce 13 the transportation and disposal costs to make it 13 make our decision. 14 less than direct disposal. 14 At the front end, any soil that's 15 contaminated above an acceptable level will have 15 UNIDENTIFIED AUDIENCE MEMBER: And then 16 to be removed. And if sorting is cost-effective, 16 more soil would be hauled in? 17 we will sort. MR. O'NEILL: Well, that could be, as 18 well. If we remove a large volume, we would have Our preferred alternative is to dispose 18 19 of it at a new engineered facility on site. It 19 to refill. Although, we believe that the depth 20 would have to be sited or built, but -- which is 20 that we're going to remove probably won't affect 21 in the works. If that is available and 21 the terrain there. We're looking at maybe six 22 affordable, we would go there. If sorting 22 inches of soil for most of it. MS, BEATRICE BRAILSFORD: And then the 23 reduces that cost, we would do that. 23

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24 soil dump is a one-time cost?

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MR. O'NEILL: Cost. Right. So,

If that site's not available but another

25 on-site location is available, such as RWMC, and

Page 29 Page 28 1 to find out where it is effective. 1 our soil sorting gets our volume down to a small Those soils that cannot be run on it 2 amount that they can handle, we would likely go 3 would just be disposed of directly. They are smaller volumes. And our last choice would be to take MS. BEATRICE BRAILSFORD: And they're 5 this soil off site. And that becomes an 6 expensive proposition, hauling radiologically the ones -- they would also be the ones that have hazardous chemicals? 7 contaminated soil across the roads. There's just MR, O'NEILL: As well. 8 costs involved with the packaging and MS. BEATRICE BRAILSFORD: Because if 9 transportation that makes this -- and also the 10 this would not --10 increased disposal costs that makes that our last MR. O'NEILL: Right, right. This does 11 choice. 12 not -- this does not do anything for hazardous MS. BEATRICE BRAILSFORD: Is the 50,000 12 13 chemicals or heavy metals. Strictly 13 cubic yards that Scott referred to -- that is 14 radiological. But that's our largest volume. 14 without any soil reduction, without any volume 15 And if we reduce that by 90 percent, the whole 15 reduction? 16 show gets smaller and more manageable. MR. O'NEILL: Exactly. Exactly. And 16 17 some of that -- some of the soil, a lot of the The next activity, the next action, I 18 want to discuss is the sanitary waste system. 18 smaller sites, are contaminated with things other 19 Again, this was a series of septic tanks that fed 19 than radionuclides, and other radionuclides than 20 a seepage pit. 20 cesium-137, which seems to work well in this The waste has been removed from the 21 technology, particularly if it's particulate. 22 tanks. We now have some residual dry sludge in If it's been something that's been 22 23 leached to the ground through a liquid process, 23 the bottom of the seepage pit. We propose to 24 remove that, treat it at WERF -- it's incinerable 24 it may not be as effective, though we're going to 25 material -- remove the seepage pit itself, which 25 try to demonstrate a few different types of soils

1 is concrete block, dispose of that off-site, 2 because it's likely mixed contaminated waste; and 3 DECON the piping in the tankage and dispose of

The other alternatives considered were 6 removing that waste and chemically stabilizing 7 it. That would require some -- some effort, some 8 work, do some treatability studies. And the 9 thermal treatment is quick and available and less 10 expensive.

And another one was in situ 12 stabilization and encapsulation. That would mean 13 putting some soil or grout in the seepage pit and 14 in the piping and leaving the -- and the tanks 15 and leaving the material in place.

And this is how they ranked up. Again, 16 17 our preferred alternative, it's the lowest cost. 18 It's highly implementable. And it's got good 19 long-term effectiveness. And we do reduce volume 20 through treatment.

The last one is our radionuclide tank 21 22 site. Again, this is not a release to the 23 environment at this time. There is contaminated 24 soil around the tank and in the vault. The 25 vault's opened. It's not a covered vault. It

1 just has soil piled in it that covers the tank.

There is RAD contamination there. 3 However, we have not seen the signature of the 4 contaminants that are in the tank in the adjacent soil. So, we believe that the integrity of the tank is good. We just need to get it out of there because it's -- it would be a nonacceptable 8 risk if it -- if it did leach.

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So, we looked at in situ vitrification. 10 That's bringing in a technology that would melt 11 all the soil and the tank and everything. It 12 would turn it to glass.

13 We looked at doing that right there at 14 the site. We looked at doing that up at TAN, 15 where they're planning to conduct a similar 16 activity. We looked at taking the waste itself up to TAN and treating it in their tanks.

18 Our preferred afternative is that we 19 would remove that waste -- remove the tank, 20 remove the waste, send the waste to the Advanced Mixed Waste Treatment Facility, let them treat it 22 thermally. We could DECON the tank and piping 23 and dispose of that suitably.

That variation, the next variation, just 25 has off-site disposal versus on-site.

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The stabilization technologies would 2 require some extensive testing and would require 3 a lot of money to develop. Hence, they weren't 4 evaluated further in the proposed plan. Or in 5 the FS, I should say.

In situ vitrification at WAG 5 proved to 7 be somewhat costly, just mobilizing the equipment 8 and the skill there to do that work. Also, keep 9 in mind that it's really a relatively small 10 site. And in situ vitrification might not appear 11 appropriate for such a small site where we could 12 actually just remove the contamination instead of

13 leaving it in place.

You see that the cost of removing the 15 tank and taking it to TAN is lower than our 16 preferred alternative. However, there are --17 there are other difficulties involved with taking

18 it up there.

While we believe that in situ 20 vitrification would either thoroughly destroy the 21 contaminants or immobilize them, it hasn't been 22 proven on tanks, it hasn't been proven with PCBs, 23 and, hence, compliance with the Land Disposal 24 Restrictions would have to be demonstrated. 25 And we certainly -- well, it would be a

1 costly and difficult venture -- let's put it that 2 way -- where as we have an available technology 3 coming on-line. The Advanced Mixed Waste 4 Treatment Facility will be available about the 5 same time we're doing this cleanup, and it would provide us the protection and remove the contamination from the environment. Or potential 8 contamination. Because, as I said, that tank has

not leaked. 10 So, in summary, we've looked at -- at 11 WAG 5, we've looked at 55 release sites. Many of 12 them were shown not to be of significant 13 concern. They didn't have a risk -- a 14 nonacceptable risk.

Seven of the sites do, though. And 15 tonight we've talked about what are some of the 17 things we've determined would be a good way to 18 treat them.

Our preferred -- if we take the cost of 20 our preferred alternatives, the sum of them could 21 cost a combined \$26 million. I need to point out 22 that's at the 50 percent volume reduction level. 23 If we didn't even treat it through -- or process 24 it, it would be cheaper than that. And if we get 25 90 percent, we could save an easy \$5 million off

Page 34 Page 35 1 of that on our -- on our total cost. 1 very northern end of the INEEL. And they have a Opportunities for public involvement. 2 series of tanks that they're planning to treat, 3 Today, here, you're here to hear what we have to 3 or at least looking at treating, using in situ 4 say, make a personal assessment, provide us your 4 vitrification. 5 input and tell us what you think would be a good MS. BEVERLY CARLYLE: And you have 55 6 answer, what you think of what we've done, the potential release sites identified? 7 assumptions we've made. MR. O'NEILL: Right. Those are This fall we hope to sign a Record of 8 identified through interviews with individuals 9 Decision. Following that would be a remedial 9 who had worked at the site and known areas where 10 design, culminating in a remedial action, 10 we had released materials to the environment. We 11 went out to find areas. Some areas would be a 11 hopefully, in the year 2001 and completing the 12 cleanup at WAG 5 by year 2003. 12 fuel tank or a septic tank or a leach field or a I'm going to turn this back over to 13 pond. 14 Erik, I think. Thank you. 14 MS. BEVERLY CARLYLE: Thank you. MR. SIMPSON: Are there any more MR. SIMPSON: Any other questions? 15 15 Beatrice, any more? 16 questions? Yes. 16 MS. BEVERLY CARLYLE: This gentleman was MS. BEATRICE BRAILSFORD: I have a lot. 17 17 18 speaking of the removal at TAN. Who is "TAN"? 18 MR. SIMPSON: Okay. Fire away. 19 MS. BEATRICE BRAILSFORD: Okay. I asked 19 What --20 one person. But has Fish and Wildlife ever done MR. O'NEILL: Oh, I'm sorry. 20 MS. BEVERLY CARLYLE: That's perfectly a sort of wildlife assessment out there? 21 21 MR. SIMPSON: Do you want to tackle that 22 all right. 22 MR. O'NEILL: That use of acronyms by a 23 one, Scott? 23 24 bureaucrat. TAN is the Test Area North, also 24 MR. RENO: I'm sorry, Beatrice, I don't 25 known in the ER world at WAG 1. That's at the 25 think I know the answer to that. I don't know if

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Page 36 Page 37 MR. SIMPSON: Okay. Jean, do you want 1 anybody else does. 2 to repeat that? I'm sorry. MR. FRANK WEBBER: I'm not sure that 3 Fish and Wildlife has. But RESL has done a lot MS. JEAN HOLDREN: Mercury is not very mobile. It doesn't move very far. And it's 4 of work with the receptors out there and the 5 limited to a very small area. And we don't feel 5 wildlife. And, currently, in Waste Area that the water that's out there is moving it. 6 Group 10, WAG 10 is studying ecological hazards, 7 for the most part, which includes wildlife, MS. BEATRICE BRAILSFORD: Is the water on top of it? 8 fauna, flora, you know, vegetation, etc. 8 MS. JEAN HOLDREN: No. They're kind of the wrap-up WAG that 10 will take care of a good portion of those -- you 10 UNIDENTIFIED AUDIENCE MEMBER: Do 11 know, those leftover contaminants or effects on 11 animals have access to this mercury? MR. SIMPSON: The question was: Do 12 ecological receptors. Although, we have 12 13 evaluated ecological receptors around WAG 5. 13 animals have access to the mercury? MS. JEAN HOLDREN: And the answer is: 14 Those sites that we feel pose a significant 14 15 That's why we are cleaning the site. It's an 15 hazard will be cleaned up in this action. The 16 remainder are being handed off to WAG 10 for 16 ecological risk. 17 further study. UNIDENTIFIED AUDIENCE MEMBER: So, if we MS. BEATRICE BRAILSFORD: This SPERT-II were to shoot an antelope that was somewhere out 19 there, we have the possibility of taking in that 19 leach pond, why are you still discharging water 20 mercury into our systems? 20 to it? I mean, in the whole sort of water pushes UNIDENTIFIED AUDIENCE MEMBER: Only if 21 contamination down. 21 MS. JEAN HOLDREN: There's nothing going 22 you ate it. 22 23 out there of any significance at all. Mercury UNIDENTIFIED AUDIENCE MEMBER: Well, 24 that's for shooting. If you were going hunting, 24 doesn't move. And mercury's our only contaminant 25 that would be the object. 25 concern. And it's a very restricted area. *** Notes ***

Page 38 Page 39 MR. SIMPSON: The question was: What MR. FRANK WEBBER: It should be pointed 2 out that on the SPERT-II pond -- in fact, on 2 does it do to the aquifer underneath it? 3 page 13 of the proposed plan, it shows our MR. RENO: We've done sampling of a 4 preliminary remediation goals as 0.5 milligrams 4 number of aquifer wells that are present beneath 5 the PBF/ARA area. In addition, we've done 5 per kilogram, and the maximum detected 6 computer modeling, fate and transport modeling, 6 concentration of mercury is 0.71 milligrams per 7 to determine what impacts there may be from the 7 kilogram. So, you know, it's really marginally 8 surface releases that are present there. contaminated. There's not much there. With both our analytical data from the UNIDENTIFIED AUDIENCE MEMBER: It 10 wells that are there and the modeling that was 10 depends on how much you eat; right? 11 done, we haven't determined that there is an MR. O'NEILL: Sure. MS. BEVERLY CARLYLE: It depends on how 12 unacceptable aquifer risk at this particular 13 your immune system has been so screwed up by 13 facility. And we're not projecting that there 14 will be one in the future. Although, we will 14 everything, not just one little contaminated 15 continue to monitor to ensure that our 15 particle matter. 16 predictions are accurate. MS. JEAN HOLDREN: Again, remember that 17 the ecological risk assessment that we did for MR. SIMPSON: Another question? 17 Go ahead, Beatrice. 18 that site assumes that an animal is there eating 18 MS. BEATRICE BRAILSFORD: When you're 19 that for its entire life --19 20 discussing the native soil cover, you have this 21 sentence: "A soil barrier would not provide MS. BEVERLY CARLYLE: And assuming that 21 you're lucky enough to shoot one in ten years.

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1 covers that we have been using on the site? MR. O'NEILL: No. This would be more 3 like just straight soil with -- with a native 4 vegetation, as opposed to a biotic barrier. For 5 instance, the SL-1 cap has varied layers of 6 graded granular material, the salt and rock and 7 cobbles, and, on the top, riprap that is 8 primarily there to keep humans out.

MS. JEAN HOLDREN: That's correct.

25 it do to the aquifer that's underneath it?

MS. BEVERLY CARLYLE: -- or draw a tag.

UNIDENTIFIED AUDIENCE MEMBER: What does

11

22 23

That's an engineered barrier. That's a 10 designed barrier, as opposed to just being 11 covered with natural soil.

MS. BEATRICE BRAILSFORD: Okay. But a 12 13 lot of the Records of Decision up to now have 14 been, it has been my impression, more towards the 15 soil-barrier end of the range, rather than what 16 you describe as the SL-1 cap.

MR. FRANK WEBBER: No. The SL-1 cap is 18 considered an engineered barrier. It has 19 multiple layers, just like some of the other 20 barriers that are being built all over the 21 country.

When we say "native soil," it would be 22 23 like putting ten foot of just conventional soil 24 over the top of it, where you would still have 25 exposure to wind, you'd still have possibility of

Page 40 1 ants, burrowing animals, bringing up

24 because it could erode."

2 contamination through that barrier. MS. BEATRICE BRAILSFORD: Okay. My 4 question, though, is: At other WAGs where you 5 have decided to use a cap and cover native 6 vegetation, my impression has been that it is closer to the pile of dirt you described than to 8 the engineered barrier present at SL-1.

adequate protection for ecological intrusion and

Are you describing the sorts of caps and

Page 41

23 long-term protection for long-lived radionuclides

MR. FRANK WEBBER: Well, there are 10 several types of engineered barrier, one of which would be where you may have multiple layers, and 12 you would put rock on top, which is what we did 13 at SL-1.

Another type of engineered barrier, 14 15 though, would consist of maybe these same layers 16 of gravel and something to prohibit intrusion into it. But, for whatever purpose, for whatever 18 design purpose, you might decide that you want a 19 vegetative cover over the top of it. So, you 20 would still have several multiple layers for an 21 intrusion barrier, but the top layer would 22 support vegetation. MR. RENO: And I think -- if I can 23

24 elaborate on it just a little bit, Frank. I think, Beatrice, the section you're

Page 42 Page 43 1 referring to are the CFA landfills and probably MR. RENO: That's -- that's correct. 2 the NRF landfills. 2 That went into their design factors. MS. BEATRICE BRAILSFORD: Okay. Yeah. MR. O'NEILL: Now, what's germane, of MR, RENO: And the caps there were 4 course, to that is what is the contaminant and 5 driven more -- there were a different set of 5 how long does it need to be protected. 6 contaminants and conditions with the life of the MS. BEATRICE BRAILSFORD: You say if 7 nuclides that were assumed to be present there. you -- you have so many alternatives in here. And the -- for instance, with the CFA MR. O'NEILL: Yeah. 9 landfills, it was a municipal- or industrial-MS. BEATRICE BRAILSFORD: Alternative 5a 10 and Alternative 3b. You say institutional 10 garbage-dump type of situation. And those types controls beyond 100 years would be required for 11 of covers are prescriptive in the landfill 12 closure ARARs or requirements. And I believe 12 contamination remaining at WAG 5. 13 that's also the case at NRF. 13 So, that's the material you're taking to 14 So, it may be that the site-specific 14 the soil dump; right? 15 conditions there -- although I'm not intimately MR. RENO: Right. 15 16 familiar of all the details at those two caps --MS. BEATRICE BRAILSFORD: How long are 16 17 was the factor during the consideration for 17 the institutional controls going to be in place 18 utilizing those types of covers. It is a best 18 at the soil dump? 19 management practice, if nothing else, for 19 MR. RENO: Well, it would be a minimum 20 landfill closure. 20 of 100 years. MS. BEATRICE BRAILSFORD: So, we're 21 MS. BEATRICE BRAILSFORD: Okay. But 21 22 assuming when it is closer to the pile of dirt 22 we --23 than to an engineered barrier that those piles of 23 MR. RENO: And the --24 dirt will erode away and we know how long it will MS. BEATRICE BRAILSFORD: We need it 25 longer than that. How much longer and will they 25 take?

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Page 44 Page 45 MS. JEAN HOLDREN: Also another factor 1 be there? MR. RENO: Well, the goal will be 2 is where to put such a facility. 3 that -- that those controls are in place in UNIDENTIFIED AUDIENCE MEMBER: We are on 4 a nice fault up here. 4 perpetuity. But for someone to say what is going 5 to happen 100 years from now is very difficult, MR. SIMPSON: Go ahead, Beatrice. 6 which is why we'll have to design the cover at --MS. BEATRICE BRAILSFORD: If a facility 7 like Envirocare -- if that corporation goes 7 at the proposed soil repository to be protective 8 against an intrusion in the future. under, who assumes the liability for the waste that's been disposed of there? First is at the -- which is what we did 10 at the SL-1 burial ground, and that consisted of MR. RENO: Boy, I -- I don't know a 10 11 definitive answer to that. And without having 11 a riprapped layer over the top of the waste, 12 layers to inhibit biological intrusion. And then 12 that, I probably ought not to speculate. But I 13 we've got the -- the tombstone out there that 13 think that there are some provisions in their 14 says, here lies SL-1, don't build your house 14 licensing agreement with the State of Utah 15 that -- that have provisions under which the 15 here. And it would be a similar type of thing 16 that we would be proposing to do with the ICDF or 16 State might have some involvement down the road. MR. FRANK WEBBER: The State is an equal 17 some other repository. But it would be a design factor to 18 party to Envirocare, so you would assume that 18 19 ensure that beyond 100 years that it would remain 19 they would share or have some of that liability. 20 protective in some fashion. 20 How much of it they decide to shirk, who knows. UNIDENTIFIED AUDIENCE MEMBER: Unless we MS. BEATRICE BRAILSFORD: Did you say 21 22 have an earthquake and the whole damn thing falls 22 shirk or share? 23 down. MR. FRANK WEBBER: Whichever the case 23 MR. RENO: Well, that's also another 24 might be. 24 25 design factor we will have to consider. MR. DAVE CARLSON: I can't speak

Page 46 Page 47 1 directly to Envirocare, because I haven't looked 1 world. Isn't that true, in terms of earthquake? 2 at it. But Utah's an agreement state, which MR. O'NEILL: You're talking the 3 means that they assume, for the NRC, the NRC 3 Envirocare site? You're talking about --4 rules. So, the State of Utah licensed MR. TED CARPENTER: No. I'm talking 5 Envirocare. about out here, out here where the INEL is. The way those things are set up in every MR. O'NEILL: I'm not a seismologist, 7 but there is seismic activity. People have 7 other case that I'm aware of is there's money set 8 aside during the operation of the facility. When 8 talked about the dampening effect of the aquifer, 9 the facility's through with operations and the 9 but I'm sure that's probably controversial. 10 closure is completed, then the State will assume To divulge ourselves of responsibility 11 honoring that facility using the funds that have 11 for designing with seismic concerns, yeah, 12 that -- there are standards, DOE standards, for 12 been set aside for the period when Envirocare 13 seismic activity, and we have to build to those, 13 leaves the site. MS. BEATRICE BRAILSFORD: And there's no 14 as well. 15 scheduled provision presumably for our soil 15 MR. TED CARPENTER: Right. However, in 16 because it's on a DOE site? 16 terms of ever having an earthquake out there, it 17 is not something that has been historically MR. DAVE CARLSON: Right. It's federal 18 identified. 18 government, so you don't have --MS. BEATRICE BRAILSFORD: Right. 19 MR. RENO: I think you're right, Ted. 19 20 But we need to be careful about what we say by MR. SIMPSON: Okay. Question. 20 MR. TED CARPENTER: Well, I was simply 21 "out there." Because along the edge of the 21 22 going to say, my understanding is, that that area 22 Little Lost Range, there are active faults 23 is one of the most a-seismic areas in the world. 23 there. 24 There is really less earthquake activity out And I'm not a seismologist either. It's

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25 there on that than in any other place in the

25 my understanding that faults as recent as 15,000

Page 48 Page 49 1 other ones are so obscure that it's too 1 years ago on a 7.2 or greater -- and that, on the 2 plain itself, over the fracture of the basalts, 2 embarrassing. 3 there are no identified fault lines as it goes MS. JEAN HOLDREN: We won't be 4 through the basalts on the plain, because it does embarrassed. MS. BEATRICE BRAILSFORD: In situ 5 have a dampening effect. But we've got references for that, 6 stabilization and encapsulation of the sanitary waste system site. You say that contaminant 7 Beverly, we can get for you if you want to see mobility would be reduced by more than 90 percent 8 them. MS. JEAN HOLDREN: Yeah. There were when you're grouting these tanks. 10 MR. O'NEILL: Right. 10 some very substantial studies performed -- we've 11 done some very substantial seismic studies at the MS. BEATRICE BRAILSFORD: There is a 12 proposal that the high-level waste tanks might be 12 INEEL in order to satisfy the requirements for 13 grouted. Are they looking at somewhere 13 considering the wind tunnel experiments that you 14 between -- perhaps up to 10 percent remaining 14 may have heard about for the housing project, 15 mobility in that instance? 15 effects of wind on housing that -- as part of a MR. O'NEILL: We have an expert here, 16 national program. 16 17 but I'm not going to jump on his question. I We have a probability map for seismic don't know the answer to that. I do know that 18 events across the INEEL. And the bottom line is, 19 they're looking at completely cleaning those 19 the probabilities are very, very low. 20 tanks out as one option. UNIDENTIFIED AUDIENCE MEMBER: Right. Is that correct, Scott? 21 This used to be the Snake River Valley. Now, 21 22 it's the Snake River Chem Site Valley. 22 But I am really not in a position to MR. SIMPSON: Go ahead, Beatrice. 23 discuss it. 23 MS. BEATRICE BRAILSFORD: I'm just going MS. BEATRICE BRAILSFORD: But is there 25 to ask two more questions, I promise, because the 25 some mobility remaining whenever you grout *** Notes ***

Page 50 Page 51 1 something like that? 1 the -- in your situation, you are predicting a MR. O'NEILL: I would think so. 2 50 percent? MR. FRANK WEBBER: In our particular MS. JEAN HOLDREN: That's correct. 4 case, with this waste, you need to remember MR. O'NEILL: But the tank is largely 5 empty. So, if you could imagine a 1,000-gallon 5 you're talking about six inches of dried sludge. tank --6 It's basically manure at this point that you 6 7 would take out. So, encapsulation would probably MS. JEAN HOLDREN: And that's surrounded 8 work okay at that particular site. by gravel, which has a lot of air spaces. Some of these other sites, I don't know MR. FRANK WEBBER: And has a significant 10 amount of water in the tank, as opposed to the 10 that any of us in this room have enough 11 sludge. We're talking very little volume in the 11 information to adequately answer your question, 12 but we could probably come up with the answer. 12 tank, and a good portion of that is in a liquid MS. BEATRICE BRAILSFORD: If you do the 13 form that, you know, would readily be vaporized. MR. SIMPSON: Any more questions? 14 ISV of the tank, you say that the volume would be 14 MR. O'NEILL: Talk obscurely. 15 reduced by half. Is that common with in situ 15 16 vitrification? So, like if we -- if INEL tried MR. SIMPSON: Let's take about a 16 17 in situ vitrification at Pit 9, Pit 9 would not 17 five-minute break, and then we'll come back and 18 be one acre but half an acre? 18 have the comment session. (A recess was taken.) MR. RENO: Well, you are taking 19 MR. SIMPSON: Okay. This is the portion 20 something that has liquids, and it has void 20 21 of the meeting where the public comments and your 21 space, and melting it into a solid glass form. 22 And that would be the volume reduction that you'd 22 comments are entered into the record. And so, 23 see. I don't know -- I don't know what the please, when you comment, clearly speak your name 24 and give your address. And, that way, we can 24 specific amount would -- would be. 25 send you a copy -- a copy of the Responsiveness MS. BEATRICE BRAILSFORD: But here at *** Notes ***

Page 52 Page 53 1 Summary, which is part of the Record of Decision, 1 that it's cheaper to clean it up than continue to 2 monitor it until the end of time. And I think 2 which you'll also receive. So, who would like to start out? I'm 3 that that's probably a real good stride forward. But, again, I think there's just some --4 going to use the microphone, too, to help out our you know, in this plan, we have to remove the 5 court reporter. tanks so that we can clean up the soil. Beatrice? And, in WAG 3, I asked specifically, UNIDENTIFIED AUDIENCE MEMBER: You have 8 don't you have to remove the tanks to clean up 8 a nice smile. 9 the soil? And the answer was no. MR. SIMPSON: Oh, thank you. 10 And then I think -- just a specific Beatrice? 10 11 comment to this plan, and it's the same comment MS. BEATRICE BRAILSFORD: Sure. 11 12 that we made to the WAG 3 plan. There's got to MR. SIMPSON: Well, your comments might 12 13 be a fair amount of public involvement when we're 13 bring out some others. 14 developing the Waste Acceptance Criteria for the MS. BEATRICE BRAILSFORD: My name is 15 soil dump. Because I know a lot of folks are 15 Beatrice Brailsford. And we, the Snake River 16 Alliance, will certainly be submitting written 16 edgy about that to begin with. And they're not 17 comments. going to get more relaxed if they don't know how 18 we're going to decide what to put in it. I guess our fundamental concern remains, 19 how does this fit together with the other cleanup MR. SIMPSON: Thanks, Beatrice. 19 20 actions? And I think that, you know, the notion 20 Anyone else? MS. BEVERLY CARLYLE: I'll second her 21 that some caps won't last as long as other caps, 21 22 I think, is something that we need to keep 22 comment. 23 MR. SIMPSON: Okay. Comment is 23 examining. I would like to note that this might be 24 seconded. MS. BEVERLY CARLYLE: But really, with 25 the first cleanup plan that we've seen INEL say 25

CondenseItTM

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	this, I love the way that all of you gentlemen		representing the Shoshone-Bannock Tribes,	
	are so knowledgeable and how it does come into	2	306 Pima Drive, Fort Hall.	
	when you are presenting it to the so-called	3	To the Shoshone-Bannocks, the animals	
4	people.	4	and plants out there, the native species, are	
5	We always go 100 years down the road.	5	part of the tribal heritage. As you know, I	
6	It would be real nice if when you boys do get	6	really don't see that need for that 48 58	
1 7	together and have this, what is going on today?	7	acres to have all of the native ecosystem be	1
	That's what it is. Because INEL will take care	8	removed.	
	of this and that, and everything is great in 100	9	Also, of course, I want to remind you	
	years. Today is the day. Are you going to be	10	that you're not really disposing of anything.	
111	here in 100 years?	11	You're storing it. And and I do hope that if	
12		12	it ever reverts from DOE possession that it is	ſ
13			returned to the Shoshone-Bannock Tribes to be	,
14	statement. Because you just said that we are		preserved as an ecological preserve, an	i
	going to have this. But that's all right. We	4	environmental preserve.	1
	don't need to worry about growing anything out	16		
17	there because we're going to put houses out	17	Anyone else?	
18	there. Thank you, Dear.	18	Okay. With that, I just wanted to	
119			remind people that the comment period remains	
20	the record?	20	open until June 9 on this project. The next	
21	MS. BEVERLY CARLYLE: Beverly Carlyle.	21	project that we will be having public involveme	nt
22			on will be the Central Facilities Area, some	
23			soils at the Central Facilities Area. And a	
24			proposed plan will be released sometime in	
25	MR. TED CARPENTER: I'm Ted Carpenter,	25	summer, July or August.	
	*** Not	es	***	

	Page 56	Page 57
And, with that, thanks for coming and	1 REPORTER'S CERTIFICATE	-
2 good night.	2	
3 (The hearing was concluded at 8:27 p.m.)	3 STATE OF IDAHO)	
4 **************	4) ss.	
5	5 County of Bonneville)	
6	6	
7	7 I, KIMBERLY CARPENTER, CSR, a Notary	
8	8 Public in and for the State of Idaho, do hereby	
9	9 certify:	
0	10	
1	11 That said hearing was taken down by me	
2	12 in shorthand at the time and place therein named	
13	13 and thereafter reduced to typewriting under my	
	14 direction and control.	
15	15	
6	16	
17	17 WITNESS MY HAND AND SEAL this the 20th	
8	18 day of May, 1999.	
9	19	
20	20	
21	21 (Signature)	
22	22 Kimberly Carpenter, CSR,	
23		
24	24 in Idaho Falls, Idaho. 25 (Seal) My Commission expires: Perpetual.	
25	25 (Seal) My Commission expires: Perpetual.	

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